



# EASTERN IOWA DX ASS'N

Fall 1983

W0JWJN/Rptr

144.59/145.19

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The regular Fall meeting of the EIDX will be held at the REC building, Marion Iowa, 14 October. All members are urged to attend as two important events are on the agenda:

1. Election of officers for the 1984 term.
2. Action on changes to the constitution and by-laws as proposed by the appointed constitution review committee (KDØQ, WØWP, WØEJ & KØJSY).

A copy of the proposed revised document is attached.

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The EIDX picnic last August was enjoyed by those attending. However attendance was on the light side (9 members), and some wondered where were those who have been advocating and voting for such outings.????? Another event will be announced soon; perhaps there are more pizza-eaters than picnickers in our membership!!!!!!

\* \* \*

The Des Moines hamfest was well attended by EIDXers with at least 24 members counted at the event. The upcoming CWARC hamfest will be history by the time this is published, but will undoubtedly be well attended as well.

\* \* \*

DX: As of this time there are 3 announced biggies on schedule per the W6TI DX bulletin and other sources. Even if only one or two materialize, it will make up for a rather slow summer.

" 70 operation due to start on October 7" (previously announced as SSB Simplex operation only on 2 frequencies)

" ZA operation by DJ0UJ October 8 to 15" (UJ supposed to be an Albanian living in Germany)

" BY1PK - SSB operation by VE7BC on 4 October @ 0100 Z on 14145 listening 14180 to 14220 and below 14145"... Supposed to be for several days.

..... No. Cal DX Club bulletin by W6TI

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Eric, KJ0D, is again going to the Caribbean! He has joined K8CV's operation to VP2E (Anguilla) along with a couple of other contesters. Will be from 20 November to 2 December including a 20 meter effort in the CQWW CW Test. Room for a couple more ops per the NCJ--Contact Eric at 390-5613(days) or 396-0073 (nights) for further info.

\* \* \*

Eric also submitter the following letter from the NATIONAL CONTEST JOURNAL re: Registering of hired guns:

Dear Randy,

<<<<>>>>

It seems like we stirred something up with the letter about setting up a DXpedition/contest operator referral service. I've received over a dozen telephone calls and letters about the suggestion.

The only letter that was any way negative was one from N3ED who, I feel, misunderstood the concept and thought that operators were going to be assigned to the operations. Of course that was never the intent; the service would only be referring people who had expressed an interest in operating in the particular type of operation planned. The organizers would then, at their option, contact the prospective operators and go from there.

With the interest shown, I think it would be appropriate to proceed with setting up the system. The first step will be to initiate registration of prospective operators. To this end I have created a questionnaire put together from my own ideas as well as the input from the calls, letters, and local radio clubs. Larry sent along copies of the forms but no space this issue. Inquire to Larry and I will try to get it in next month.- 2D]

I would like to request that each person submitting a filled out questionnaire, enclose an SASE so they can be notified of referrals. Organizers may want to send more than one SASE to always have one on file. Of course, any suggestions toward development of the system will be welcome.

I will be placing ads in several of the newsletters and mags to solicit persons to send in for these forms. The NCJ readers are all encouraged to have the notice run in their local club newsletters. This should get the word to just about everyone.

Hopefully, no one will get "jealous" or think that I have overstepped my bounds but I feel that this is something whose time has come. I just want to see it "happen."

Thanks for all the help.

73, Lee N7DF  
Box 125, Holton, KS 66436

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\* \* \*  
CONTESTS

ARRL DX Test

I started to list leaders but so many in different Mode/Band/Power categories that I gave up and refer you to the tabulations in Oct. QST, Page 78. Note that the EIDX was 9th in the Medium Category with WØWP and KØZF the CW and Phone winners respectively. Congrats to all participants.

CQ WW CW & PHONE Tests

Same comments- too many to list, but the same big guns on top. EIDX 16th in 57 club entries. See September and October issues of CQ for details.

\* \* \*  
It has been suggested that standings (unofficial, claimed by operators) for 5BWAZ and Russian Oblasts be published in this newsletter. A few initial counts are listed below. I think it would be interesting to continue and hopefully other inputs and updates will be submitted to the editor. (The July KCDXC newsletter has 11 5BWAZ listings with totals from 135 to 197. The South Florida newsletter also lists these and other categories(CW DXCC, 6 Meter etc)). The following are just for openers.. lets have a longer list next issue.

USSR OBLASTS (Wkd/Cnfd) Max: 180

WØWP 169 / 159

KØLUZ

WØIZ 155 / 130

KØØQ - / 98

5BWAZ (Wld / Cnld) Max: 200

N4RR 200 / 200 (#56)

W4RP 185 / 182

KCQZ - / 173

W4IZ 174 / 163

KQGT - / 137

AKOM 153 / 133

KQVZR 133 / 119

### DXCC UPGRADES:

W4SR 316 Phone

300 CW

W4IZ 323 Mixed

KQXXK 159 Mixed

### DXCC HONOR ROLL:

KQGVZ Leading @ 310 / 327

W4SR moved up to 307 / 319

W4IZ new member @ 307 / 324

ALL above from last three issues of QST. Hope no misses... Understand that two more members have made submittals which should qualify them for Honor Roll.

### SATELLITE TRIVIA:

OSCAR 8 has died.

OSCAR 10 (Phase 3B) up and operating in RB manner.

Russian birds RS6 & RS8 still doing a good job.

ARRL still putting out monthly orbital data sheets to members for SALE. W4IZ received WAS-Satellite Award \$100.

The W5YI report has groundtrack charts of orbits over USA for upcoming STS-9. (Shuttle Columbia). Contact editor for copy if desired.

### FOR SALE:

60' KOHN 25G Tower, TA-33 Beam, Ham-M Rotor -- \$300.-You take down.

..KWOE

Wayne is moving to Illinois next month.. We wish him well and hope to see him at meeting the 14th.

Illinois is also gaining another EIDXAR. W4RR moving to Rockford.. GL & DX Roger- Pick a high spot this time for your new QTH !!



**TOPPING OUT:** Let's face it, when we get to the top of a tower project, we look at the mast pipe and think "Gee, if I put up the antenna a few feet up from the mast, it will be higher, and that's better." Or we want a 40-meter beam "up top," or monobanders eight feet apart. So how high is safe?

The mast pipe can only take so much stress, which for the common iron water pipe normally used is 30,000 psi or, for less common aluminum (6061-T6 alloy) pipe is 38,000 psi, before it will bend. How much force is that? For a mast sticking up out of a tower top an applicable formula is:  $S=FL/Z$  where  $f$ =force in pounds,  $s$ =the stress,  $L$ =the length in inches, and  $Z$ =the section modulus. This section modulus ( $Z$ ) is different depending on the diameter of the pipe. For the pipes we normally end up with there are thick wall (schedule 80) and thin wall (normal or schedule 40) and the respective section modulus  $Z$  for each is: for 1-1/2 inch pipe, schedule 80=.4118 and schedule 40=.3262, for 1-1/4 inch pipe schedule 80=.2913 and schedule 40=.2346. As you can see, thicker walls help and larger diameters help even more.

With the above, let's assume a "normal" situation; one that lets us work through the equations. We have a tower with room for a 2-inch diameter mast, for which we are using 1-1/2" (1.9 inches outside diameter) galvanized water pipe--the normal schedule 40 (about 1/8-inch wall) pipe, because it's easy to find, and heck, it's iron, it must be strong. Also, let's assume we have a "typical" tribander that is about 8 square feet in area. At 70.7 mph wind velocity the force is 20 pounds per square foot, at 86.6 mph it is 30, at 100 mph it is 40. Around here the guidelines are to design to 100 mph, and if we reach maximum allowed stress there (or above there) we will have a safety factor of two at 70.7 mph. Finally, let's assume we want to mount the antenna 3 feet above the tower apex. The force on the antenna is then (at 100 mph) 40 pounds per square foot times 8 square feet, or 320 pounds. The length of the mast ( $L$ ) is 36 inches and  $Z$ =.3262. For these values, the stress on the mast is:

$$S=(320)(36)/.3262=35,315 \text{ psi}$$

As you can see, this exceeds the 30,000 allowed on the iron pipe, but is all right for the aluminum. Note that for the schedule 80 iron pipe ( $Z$ =.4118) the stress would be 27,974 psi, and would be acceptable. Note also, that for two antennas, you can make this calculation for each, add the stress, and see where you stand. So, go find some large-diameter thick mast and calculate what you can stack. A final aside...stainless pipe will have a yield stress of 150,000 to 180,000 psi, which would support a bunch; somebody find some cheap--please!!! —Steve, KB9IW (from Ham Rag, Rockford (Ill.) ARA

#### from CVARC BANDSPREAD

English	Goodbye	Good Morning	Good evening
German	Auf wiedersehen	Guten Morgen	Guten Abend
Russian	Dosvidania	Dobro Utro	Dobro vecer
Spanish	Adios	Buenos dias	Boenos tardes
Italian	Arivederchi	Bon giorno	Bona siera
Yugoslav	Dovidjenja	Dobro jutro	Dobra vecer
Romanian	La revedere	Buna dimineatza	Buna seara
Hebrew	Shalom	Boker Tov	Erev Tov
Japanese	Sayonara	Ohaya	Kon-banwa

from NCDXF Newsletter

Several suggestions propose that NCDXF request ARRL make "better" decisions about what constitutes a country and what they will accept as "proof" of operating at a rare location, etc. We have not considered this our duty in life, but we have discussed some of these matters informally with ARRL from time to time. However, please convey your thoughts to your ARRL Director and the DX Advisory Board member in your call area. That is what they are there for. They are the ones who direct ARRL decisions on DX matters.

from NCDXF Newsletter

Again, Thanks to W0EAN for newsletter printing, to W0MJN for the mailing labels.  
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# Davton Hamvention '83

From Kansas City DK Club Newsletter, May '83



EASTERN IOWA DX ASSOCIATION

BY-LAWS

- I. MEMBERSHIP: Applications for membership shall be submitted in writing on forms provided by the secretary. Each applicant shall express a willingness to abide by the Constitution, By-Laws, and other rules promulgated by the club. Two-thirds of the Full Members must approve the application before membership is granted. Membership shall be in four classes with requirements as follows:

A. ASSOCIATE MEMBER:

1. All requirements above.
2. Valid Amateur Radio license and membership in the ARRL.
3. Payment of dues as assessed by the By-Laws.
4. Permanent residence within 175 miles of Cedar Rapids, Iowa.
5. Attendance at 50% of the club meetings.
6. Must upgrade to full membership in two years from the time of joining the club.

B. FULL MEMBER:

1. All requirements of an Associate Member.
2. Possession of at least 100 QSLs from 100 different countries in accordance with a current ARRL DXCC countries list or possession of an ARRL DXCC Award. This requirement may be met either with a current call sign or a previous call sign, or a combination of both.

C. INACTIVE MEMBER:

1. Must be or have been an Associate or Full member in good standing.
2. If a member fails to maintain full or associate membership he/she automatically becomes an inactive member.
3. Inactive membership status may be maintained indefinitely by payment of the regular yearly dues.
4. Inactive membership status allows all EIDX privileges except that he may not vote or participate in contest for club aggregate scoring. He/she will receive notice of the club meetings, the newsletter and be eligible for club promotions.

D. HONORARY MEMBER:

1. In recognition of special service to the EIDX or the DX community, an Honorary membership may be awarded to any individual.
2. A two-thirds vote of the full members is required for Honorary membership.
3. An Honorary member receives a membership certificate and can use the club logo or club name to identify himself as a club member.
4. An Honorary member does not pay club dues, does not receive the club newsletter and is not eligible to vote or participate in contest aggregate scoring.

E. MAINTENANCE OF MEMBERSHIP:

Failure to continue to meet all requirements for a particular membership class constitutes nonmembership status. Specifically:

1. ARRL membership and valid license.
2. Payment of dues by ~~December 1st~~.

*the January meeting*

EASTERN IOWA DX ASSOCIATION CONSTITUTION

PREAMBLE: We, radio amateurs, wishing to secure for ourselves the pleasure and benefits of the association of persons commonly interested in Amateur Radio DXing and Contesting, constitute ourselves the Eastern Iowa DX Association and enact this constitution as our governing law. It shall be our purpose to promote co-operation, exchange of information, improved operator proficiency, and fraternalism so as to advance DX activity and Contesting within the amateur radio community.

MEMBERSHIP:

ARTICLE I  
Persons interested in DX and/or contesting amateur radio communications shall be eligible for membership. Membership shall be by application and election upon such terms as the club shall by its By-Laws provide.

OFFICERS:

ARTICLE II  
Sec. 1 - The officers of this club shall be: President, Vice-President, and Secretary-Treasurer and shall be Full Members.

Sec. 2 - The officers of this club shall be elected for a term of one year by ballot of the Full Members at the Fall meeting.

Sec. 3 - Vacancies occurring between elections shall be filled by elections at the first meeting following the occurrence of the vacancy.

Sec. 4 - Officers may be removed by a 3/4 vote of the Full Members.

DUTIES OF OFFICERS:

ARTICLE III  
Sec. 1 - The President shall preside at all meetings of this club, and conduct same according to the rules adopted. He/she shall enforce due observance of this constitution and by-laws; decide all questions of order; sign official documents adopted by the club; and perform all other customary duties pertaining to the office of President.

Sec. 2 - The Vice-President shall assume all the duties of the President in the absence of the latter.

Sec. 3 - The Secretary-Treasurer shall keep a record of the proceedings of all meetings, keep a roll of members, carry on all correspondence, and maintain the constitution and by-laws. He/she shall receive and receipt for all monies paid to the club, keep an accurate account of all monies received and expended, pay all bills authorized by the club or its officers constituting an Executive Committee. He/she at the end of his/her term turn over all records and items belonging to the club to his/her successor.

MEETINGS:

ARTICLE IV  
The By-Laws shall provide for regular and special meetings.

DUES:

ARTICLE V  
The club, by majority vote, may levy upon the membership such dues or assessments as shall be deemed necessary for the business of the club.

AMENDMENTS:

ARTICLE VI  
This constitution or the By-Laws may be amended by a 2/3 vote of the Full-Members.

QUORUM:

ARTICLE VII  
A quorum is at least 1/3 of active membership.

RULES:

ARTICLE VIII  
Robert's Rules shall govern the proceedings.



II. MEETINGS: Regular meetings shall be held quarterly, normally during the months of January, April, July, and October at a time and place as ordered by the President. Special meetings may be called by the Executive Committee (consisting of the Pres., V.P., Sec/Treas.) provided a reasonable effort is made to notify all members.

1. The meetings are chaired by the President or other ranking club officer in his absence.
2. The election of officers shall be held during the October meeting.

III. DUES: A regular yearly assessment of \$4.00 per member is hereby assessed in accordance with Article V of the Constitution for the purpose of providing operating funds for current expenses. The EIDX year runs from October 1st of one year to September 30th of the following year. Dues must be received by December 1st to maintain membership status.

IV. OFFICERS:

1. New officers take office at the end of the October meeting.
2. The Executive Committee may authorize emergency expenditure of club funds to \$15.00. Approval of a majority of the membership is required for emergency expenditures above that level as well as for all routine expenditures.
3. Emergency expenditures are reported by Secretary-Treasurer at the next regular club meeting.
4. The Vice President is editor-in-chief of the EIDX newsletter.

V. NEWSLETTER: The EIDX newsletter shall be published quarterly two weeks prior to the club meeting and shall serve as formal notification of the forthcoming meeting.

Dale Repp, W01Z  
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